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PENDING CLAIMS

1. (Original) A modular AC section for a power supply unit that provides electrical power to a plurality of electrical equipment, comprising:

a top in which a plurality of holes are formed and into which screws are inserted for attaching said modular AC section to said power supply unit;

a back adjacent said top;

a circuit breaker attached either to said top or back;

a connector attached to said top, said connector adapted to mate with a corresponding connector from a power supply module inserted into the modular power supply unit; and

wiring that connects said circuit breaker to said connector.

2. (Original) The modular AC section of claim 1 wherein said connector comprises a blind mating connector.

3. (Original) The modular AC section of claim 1 wherein said connector comprises a blind mating and hot pluggable connector.

4. (Original) The modular AC section of claim 1 further including a plurality of connectors attached to said top and adapted to mate with corresponding connectors from power supply modules inserted into the modular power supply unit.

Serial No.: 09/964,306
Filed: September 26, 2001

5. (Original) The modular AC section of claim 4 wherein said connectors comprise blind mating connectors.
6. (Original) The modular AC section of claim 1 further including a plurality of circuit breakers.
7. (Original) The modular AC section of claim 1 further including two AC input connections.
8. (Original) The modular AC section of claim 1 wherein said back is perforated.
9. (Original) The modular AC section of claim 1 wherein said back is perforated to permit air flow to assist in removing heat from said power supply unit.
10. (Original) The modular AC section of claim 1 further including a locator post in said top which mates with a corresponding locator recess in said power supply unit.
11. (Original) The modular AC section of claim 1 further including redundant power feeds.
12. (Original) A rack of electrical computer equipment, comprising:
a plurality of computers housed in said rack;

Serial No.: 09/964,306
Filed: September 26, 2001

a power supply unit housed in said rack and providing power to said computers, said power supply unit includes a power supply housing mated to said rack in which a power supply module can be inserted and an AC section that mates to said power supply housing and provides output electrical power, said AC section comprises:

- a top in which a plurality of holes are formed and into which screws are inserted for attaching said AC section to said power supply housing;
- a back adjacent said top;
- a circuit breaker attached either to said top or back;
- a connector attached to said top, said connector adapted to mate with a corresponding connector from a power supply module inserted into the power supply housing; and
- wiring that connects said circuit breaker to said connector.

13. (Original) The rack of electrical computer equipment of claim 12 wherein said connector comprises a blind mating connector.

14. (Original) The rack of electrical computer equipment of claim 12 further including a plurality of connectors attached to said top and adapted to mate with corresponding connectors from power supply modules inserted into the power supply housing.

Serial No.: 09/964,306
Filed: September 26, 2001

15. (Original) The rack of electrical computer equipment of claim 14 wherein said connectors comprise blind mating connectors.

16. (Original) The rack of electrical computer equipment of claim 12 further including a plurality of circuit breakers.

17. (Original) The rack of electrical computer equipment of claim 12 further including two AC input connections.

18. (Original) The rack of electrical computer equipment of claim 12 wherein said back is perforated.

19. (Original) The rack of electrical computer equipment of claim 12 wherein said back is perforated to permit air flow to assist in removing heat from said power supply unit.

20. (Original) The rack of electrical computer equipment of claim 12 further including power feeds.

21. (Original) A rack of electrical computer equipment, comprising:
a plurality of computers housed in said rack;

Serial No.: 09/964,306
Filed: September 26, 2001

a power supply unit housed in said rack and providing power to said computers, said power supply unit includes a power supply housing mated to said rack in which a power supply module can be inserted and a modular means for interconnecting AC input power to a power supply module.

22. (Original) The rack of electrical computer equipment of claim 21 wherein said modular means is screwed to said power supply housing.

23. (Original) The rack of electrical computer equipment of claim 21 wherein said modular means comprises redundant power feeds.